



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/627,424	07/25/2003	Mark Bender	P03,0267	2348

26574 7590 08/08/2005

SCHIFF HARDIN, LLP
PATENT DEPARTMENT
6600 SEARS TOWER
CHICAGO, IL 60606-6473

EXAMINER

BLAKE, CAROLYN T

ART UNIT	PAPER NUMBER
----------	--------------

3724

DATE MAILED: 08/08/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/627,424

Applicant(s)

BENDER, MARK

Examiner

Carolyn T. Blake

Art Unit

3724

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 May 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 July 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
 Paper No(s)/Mail Date _____.
- 4) ☐ Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

1. This action is in response to applicant's amendment received on May 2, 2005.
2. The objection to the specification is withdrawn in view of the amendment.
3. The objection to claim 16 and 17 is withdrawn in view of the amendment.
4. The text of those sections in Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claim Rejections - 35 USC § 103

5. Claims 1, 2, 10, 11, 16, and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daley (1,962,431) in view of Jenkins et al (5,406,243).

Regarding claim 1, 16, and 17, Daley discloses a method for manufacturing a straight strip lamination (5) with a press, comprising the steps of: providing in the press a die (18) comprising a main slot punch (39), a separator punch (72), and a part feature punch (40). Daley fails to disclose activating and deactivating the punches as claimed. However, Jenkins et al discloses a method for manufacturing a straight strip lamination with a press wherein a single punch is activated and deactivated (see stage 1 in FIG 1). This reduces the number of punches needed because the single punch is able to create different distances between features. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to create the Daley laminations by decreasing the number of punches, and then activating and deactivating those punches, as disclosed by Jenkins et al, for the purpose of creating a desired product without complex machinery. . Note: The reduced number of punches would create the need for different step distances in order to create the same work product.

Art Unit: 3724

Regarding claim 2, Daley discloses feeding the strip (15) with said first same step distance and stamping with the slot (39) and separator (72) punches.

Regarding claim 10, Daley discloses the step of providing the slot punch (39) so that teeth are formed in two parallel strips.

Regarding claim 11, Daley discloses the step of providing the die beginning at a strip entrance end with the slot punch (39), followed by the part feature punch (40). Which is then followed by the separator punch (72).

6. Claims 3-6 and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daley in view of Jenkins et al as applied to claim 1 above, and further in view of Raschbichler (4,728,382).

Regarding claims 3-5 and 9, the Daley-Jenkins et al combination fails to disclose a cut off end contour punch. However, Raschbichler discloses a method for manufacturing a straight strip lamination wherein the punch comprises a cut off end contour punch. See contour end (18') in FIG 2. The cut off end contour disclosed is useful in connecting strip ends. In addition, the attributes of the strip lamination are located at different distances from one another, and thus would require different step distances. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a cut off end contour punch and to have the fourth step distance different from the first, second, and third step distances, as disclosed by Raschbichler, with the Daley-Jenkins et al combination for the purpose of manufacturing motor straight strip laminations.

Regarding claim 6, the Daley-Jenkins et al combination fails to disclose the part feature is a T-slot. However, Raschbichler discloses the part feature is a T-slot (23). The T-slot is provides a stronger connection to another device than the notch disclosed by Daley. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use a T-slot, as disclosed by Raschbichler, on the Daley-Jenkins et al combination because a T-slot acts as a connector.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Daley in view of Jenkins et al as applied to claim 1 above, and further in view of Applicant's admitted prior art (hereafter, AAPA). The Daley-Jenkins et al combination fails to disclose pinch rollers and a servomotor. However, AAPA discloses pinch rollers and a servomotor are useful in advancing the strip to be punched. See page 4, lines 12-22 of the disclosure. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide pinch rollers and a servomotor, as disclosed by AAPA, with the Daley-Jenkins et al combination for the purpose of advancing the strip to be punched.

8. Claims 8 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daley in view of Jenkins et al as applied to claim 1 above, and further in view of Asao et al (6,147,431). The Daley-Jenkins et al combination fails to disclose coiling the strip. However, Asao et al disclose the step of coiling a strip. See col. 1, lines 29-30. Coiling the strip allows the strip to be used on a stator case and implemented in a motor. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide the step of coiling a strip, as disclosed by Asao et al,

with the Daley-Raschbichler combination for the purpose of implementing the strip in a motor.

9. Claims 12-14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Daley as applied to claim 11 above, and further in view of Raschbichler. Daley fails to disclose a cut-off end contour punch. However, Raschbichler discloses a method for manufacturing a straight strip lamination wherein the punch comprises a cut off end contour punch. See contour end (18') in FIG 2. The cut off end contour disclosed is useful in connecting strip ends. In addition, the attributes of the strip lamination are located at different distances from one another, and thus would require different step distances. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a cut off end contour punch and to have the fourth step distance different from the first, second, and third step distances, as disclosed by Raschbichler, with the Daley-Jenkins et al combination for the purpose of manufacturing motor straight strip laminations.

10. Claim 18 is rejected under 35 U.S.C. 103(a) as being unpatentable over Daley in view of Jenkins et al, and further in view of Applicant's admitted prior art (hereafter, AAPA). Daley discloses a method for manufacturing a straight strip lamination (5) with a press, comprising the steps of: providing in the press a die (18) having in a direction of strip feed at least a slot punch (39), followed by a part feature punch (40), which is followed by a separator punch (72), and punching out the lamination by use of said die. Daley fails to disclose using different step distances. However, Jenkins et al discloses a method for manufacturing a straight strip lamination with a press wherein a single punch

Art Unit: 3724

is activated and deactivated. This reduces the number of punches needed because the single punch is able to create different distances between features. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to create the Daley laminations by decreasing the number of punches, and then activating and deactivating those punches, as disclosed by Jenkins et al, for the purpose of creating a desired product without complex machinery. Note: The reduced number of punches would create the need for different step distances in order to create the same work product. The Daley-Jenkins et al combination fails to disclose a servomotor. However, AAPA discloses a servomotor is useful in advancing the strip to be punched. See page 4, lines 12-22 of the disclosure. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a servomotor, as disclosed by AAPA, with the Daley-Jenkins et al combination for the purpose of advancing the strip to be punched.

Response to Arguments

11. Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Carolyn T. Blake whose telephone number is (571) 272-4503. The examiner can normally be reached on Monday to Friday, 8:00 AM to 5:30 PM, alternating Fridays off.

Art Unit: 3724

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Allan N. Shoap can be reached on (571) 272-4514. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



CB

August 4, 2005



Allan N. Shoap
Supervisory Patent Examiner
Group 3700